

WHAT IS CLAIMED IS:

1. A tilt adjusting type steering apparatus for a vehicle, comprising:

a front column member fixed to a car body;

5 a rear column member connected in a swayable manner to said front column member;

a fixed gear formed on one of said front column member and said rear column member;

10 a movable gear formed on the other of said front column member and said rear column member;

a gear pressing lever swayed to effect fastening at a tilt adjusted position by making said movable gear mesh with said fixed gear or to effect releasing from the tilt adjusting position by disengaging said two gears from each other; and

15 an operator lever for interlocking with and swaying said gear pressing lever while being swayed by an operation of an operator.

20 2. A tilt adjusting type steering apparatus for a vehicle according to claim 1, wherein a handle portion, for the operator, of said operator lever is disposed below said column member.

25 3. A tilt adjusting type steering apparatus for a vehicle according to claim 1 or 2, wherein a buffer member is interposed between slide-abutting surfaces,

abutting on and sliding on each other, of said gear pressing lever and of said operator lever.

4. A tilt adjusting type steering apparatus for  
5 a vehicle according to claim 1 or 2, wherein the handle portion of said operator lever is disposed farther away from the center of the sway of said operator lever than the slide-abutting surface.

10 5. A tilt adjusting type steering apparatus for a vehicle according to claim 3, wherein the handle portion of said operator lever is disposed farther away from the center of the sway of said operator lever than the slide-abutting surface.

15 6. A tilt adjusting type steering apparatus for a vehicle according to claim 1 or 2, wherein said operator lever is molded of a non-ferrous metal or a synthetic resin.

20 7. A tilt adjusting type steering apparatus for a vehicle according to claim 3, wherein said operator lever is molded of a non-ferrous metal or a synthetic resin.

25 8. A tilt adjusting type steering apparatus for a vehicle according to claim 4, wherein said operator

lever is molded of a non-ferrous metal or a synthetic resin.

9. A tilt adjusting type steering apparatus for  
5 a vehicle according to claim 1 or 2, wherein a proximal side end portion of said gear pressing lever is supported in a swayable manner on a lower side of said rear column member,

a proximal side end portion of said operator  
10 lever is supported in the swayable manner on a side surface of said rear column member, a middle portion thereof abuts on said gear pressing lever, and a front side end portion thereof is bent as a handle portion and thereafter extended up to a lower part of  
15 said rear column member, and

said operator lever, when swayed in back-and-forth directions of the vehicle, interlocks with and sways said gear pressing lever in the back-and-forth directions of the vehicle.

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10. A tilt adjusting type steering apparatus for  
a vehicle according to claim 3, wherein a proximal side end portion of said gear pressing lever is supported in a swayable manner on a lower side of  
25 said rear column member,

a proximal side end portion of said operator lever is supported in the swayable manner on a side

surface of said rear column member, a middle portion thereof abuts on said gear pressing lever, and a front side end portion thereof is bent as a handle portion and thereafter extended up to a lower part of 5 said rear column member, and

said operator lever, when swayed in back-and-forth directions of the vehicle, interlocks with and sways said gear pressing lever in the back-and-forth directions of the vehicle.

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11. A tilt adjusting type steering apparatus for a vehicle according to claim 4, wherein a proximal side end portion of said gear pressing lever is supported in a swayable manner on a lower side of 15 said rear column member,

a proximal side end portion of said operator lever is supported in the swayable manner on a side surface of said rear column member, a middle portion thereof abuts on said gear pressing lever, and a front side end portion thereof is bent as a handle portion and thereafter extended up to a lower part of 20 said rear column member, and

said operator lever, when swayed in back-and-forth directions of the vehicle, interlocks with and sways said gear pressing lever in the back-and-forth 25 directions of the vehicle.

12. A tilt adjusting type steering apparatus for  
a vehicle according to claim 5, wherein a proximal  
side end portion of said gear pressing lever is  
supported in a swayable manner on a lower side of  
5       said rear column member,

a proximal side end portion of said operator  
lever is supported in the swayable manner on a side  
surface of said rear column member, a middle portion  
thereof abuts on said gear pressing lever, and a  
10      front side end portion thereof is bent as a handle  
portion and thereafter extended up to a lower part of  
said rear column member, and

15      said operator lever, when swayed in back-and-  
forth directions of the vehicle, interlocks with and  
sways said gear pressing lever in the back-and-forth  
directions of the vehicle.

13. A tilt adjusting type steering apparatus for  
a vehicle according to claim 1 or 2, further  
20      comprising biasing means for elastically biasing said  
gear pressing lever and said operator lever in such  
directions as to get close to each other.

14. A tilt adjusting type steering apparatus for  
a vehicle according to claim 3, further comprising  
25      biasing means for elastically biasing said gear  
pressing lever and said operator lever in such

directions as to get close to each other.

15. A tilt adjusting type steering apparatus for  
a vehicle according to claim 4, further comprising  
5 biasing means for elastically biasing said gear  
pressing lever and said operator lever in such  
directions as to get close to each other.

16. A tilt adjusting type steering apparatus for  
10 a vehicle according to claim 5, further comprising  
biasing means for elastically biasing said gear  
pressing lever and said operator lever in such  
directions as to get close to each other.

15 17. A tilt adjusting type steering apparatus for  
a vehicle according to claim 6, further comprising  
biasing means for elastically biasing said gear  
pressing lever and said operator lever in such  
directions as to get close to each other.

20 18. A tilt adjusting type steering apparatus for  
a vehicle according to claim 7, further comprising  
biasing means for elastically biasing said gear  
pressing lever and said operator lever in such  
25 directions as to get close to each other.

19. A tilt adjusting type steering apparatus for

a vehicle according to claim 8, further comprising biasing means for elastically biasing said gear pressing lever and said operator lever in such directions as to get close to each other.

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20. A tilt adjusting type steering apparatus for a vehicle according to claim 9, further comprising biasing means for elastically biasing said gear pressing lever and said operator lever in such directions as to get close to each other.

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21. A tilt adjusting type steering apparatus for a vehicle according to claim 10, further comprising biasing means for elastically biasing said gear pressing lever and said operator lever in such directions as to get close to each other.

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22. A tilt adjusting type steering apparatus for a vehicle according to claim 11, further comprising biasing means for elastically biasing said gear pressing lever and said operator lever in such directions as to get close to each other.

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